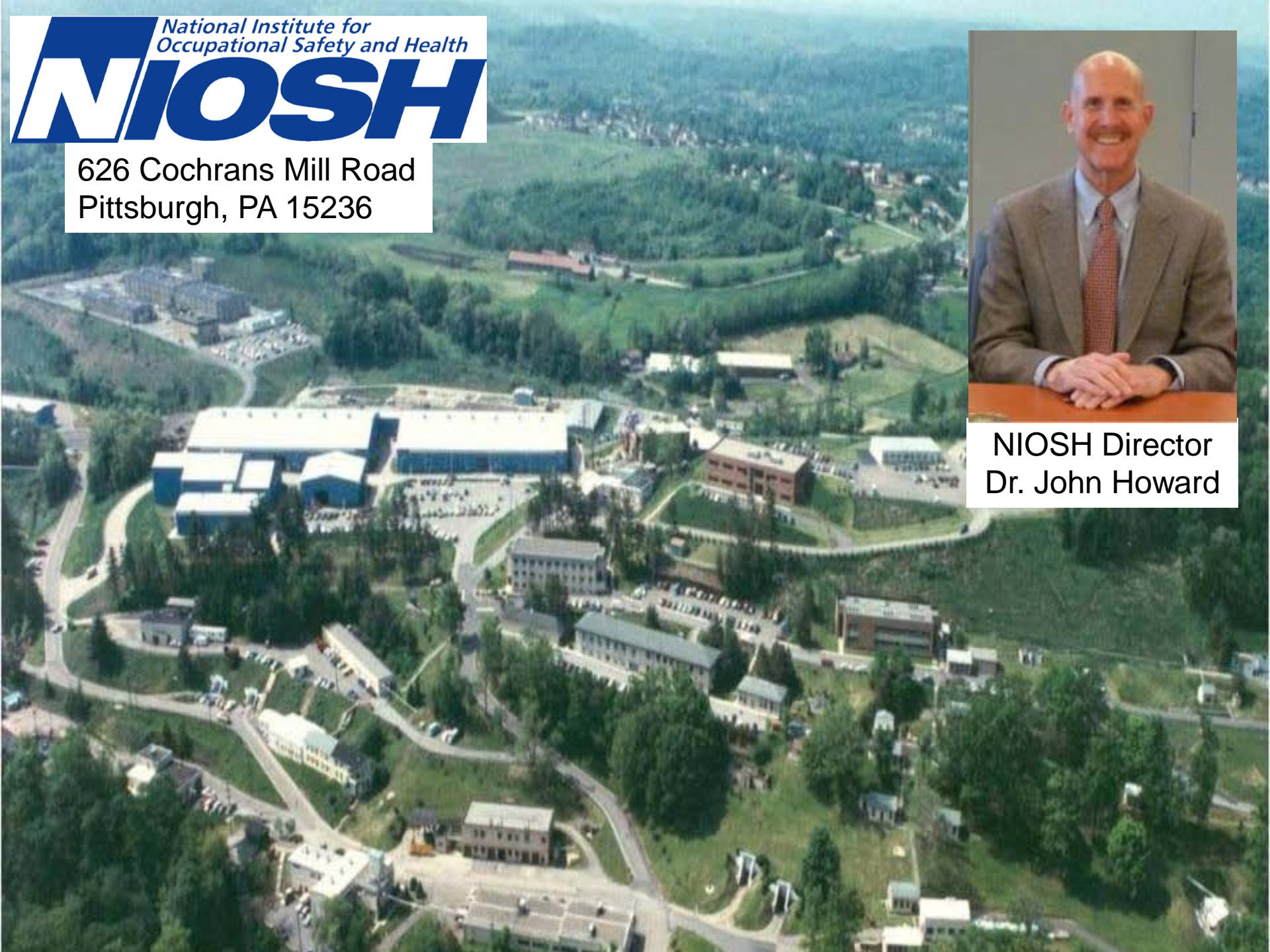




626 Cochran's Mill Road
Pittsburgh, PA 15236



NIOSH Director
Dr. John Howard

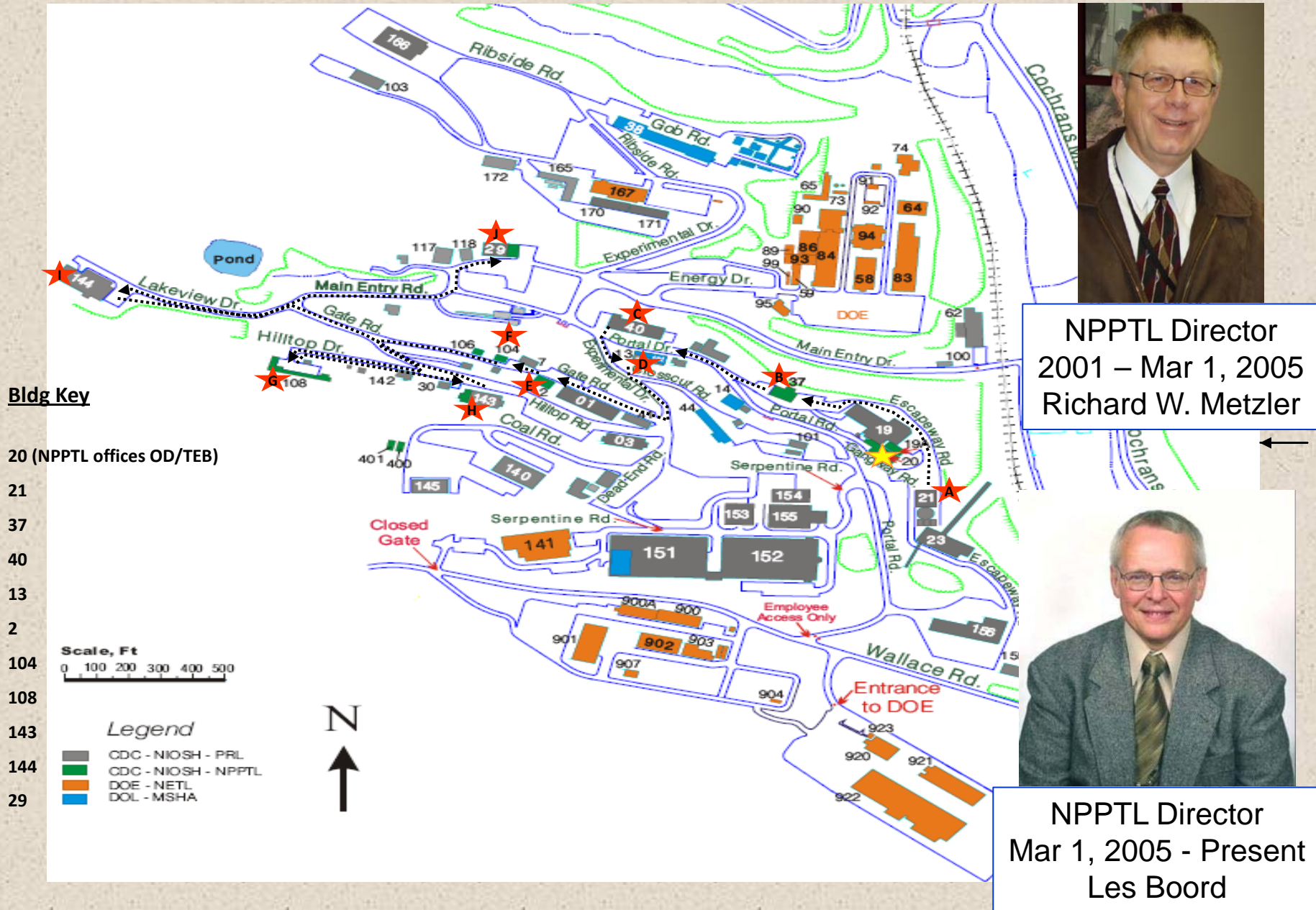


Congressional Direction

- ...the need [exists] for design, testing and state-of-the-art equipment for this nation's... **miners, firefighters, healthcare, agricultural** and **industrial workers...**
- ...to carry out research, testing, and related activities aimed at protecting **workers**, who **respond** to public health needs in the event of a terrorist incident
- ...to organize and implement a **national** personal protective equipment **laboratory**

Senate Rpt. 106-293- Departments of Labor, Health and Human Services, and Education and Related Agencies Appropriation Bill, 2001 Filed, Under Authority of the Order of the Senate of January 6, 1999

National Personal Protective Technology Laboratory



Key Partners & Stakeholders

Academia



University of Pittsburgh



VANDERBILT®

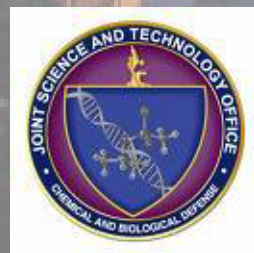


VirginiaTech
Invent the Future



West Virginia University





Key Partners & Stakeholders Government



Key Partners & Stakeholders International



Key Partners & Stakeholders Industry



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Labor



LABOR



Key Partners & Stakeholders

Non - Governmental

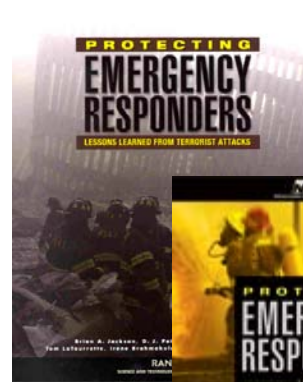


Key Partners & Stakeholders Professional & Trade

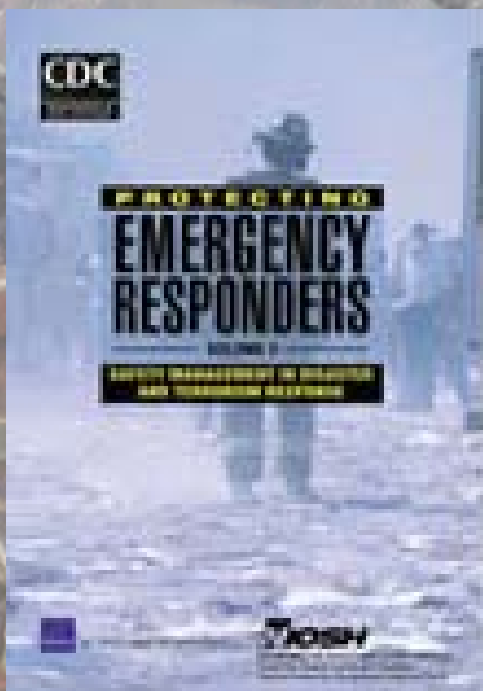
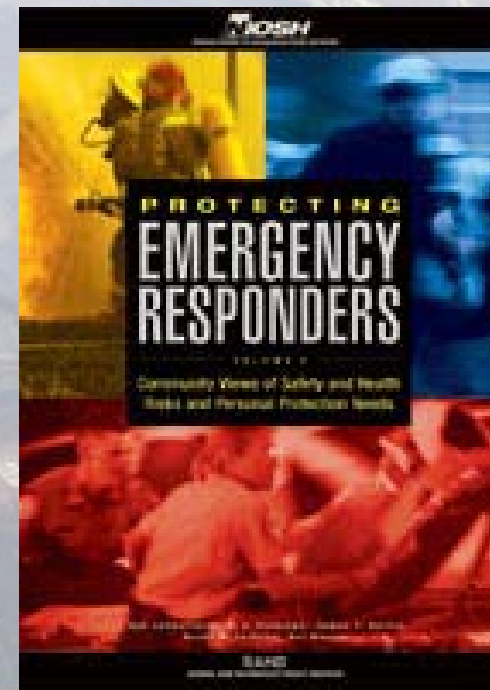
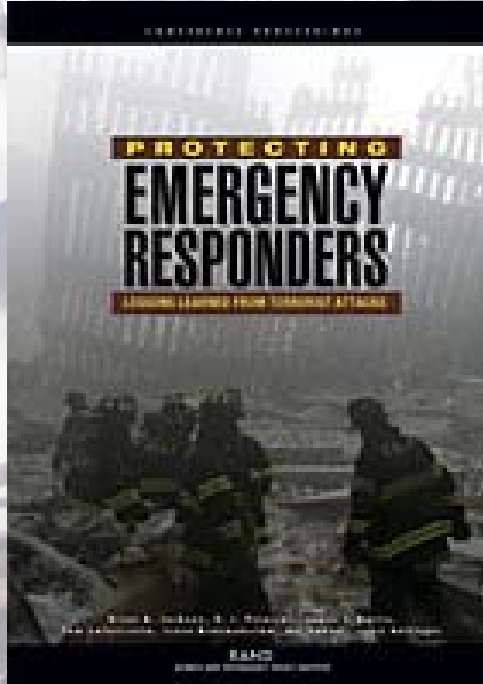


NPPTL's Early Achievements

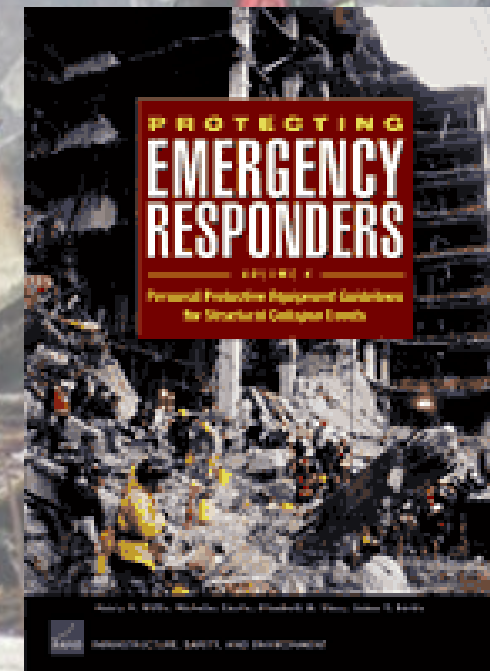
- Response to 9/11
- Respirator CBRN standards and certification
- Studies of PPE technology gaps & user needs
- CDC SARS support
- CBRN escape hood guidance
- Workplace end of service life modeling
- Leadership role with ANSI ISO Respiratory Protection



Ground Zero September 11, 2001



Rand Reports on Protecting Emergency Responders



federal register

Thursday
June 8, 1995

Part II

Department of Health and Human Services

Public Health Service
42 CFR Part 84

Department of Labor

Mine Safety and Health Administration
30 CFR Parts 11, 49, 56, 57, 58, 70, 72,
and 75

Department of Labor

Mine Safety and Health Administration

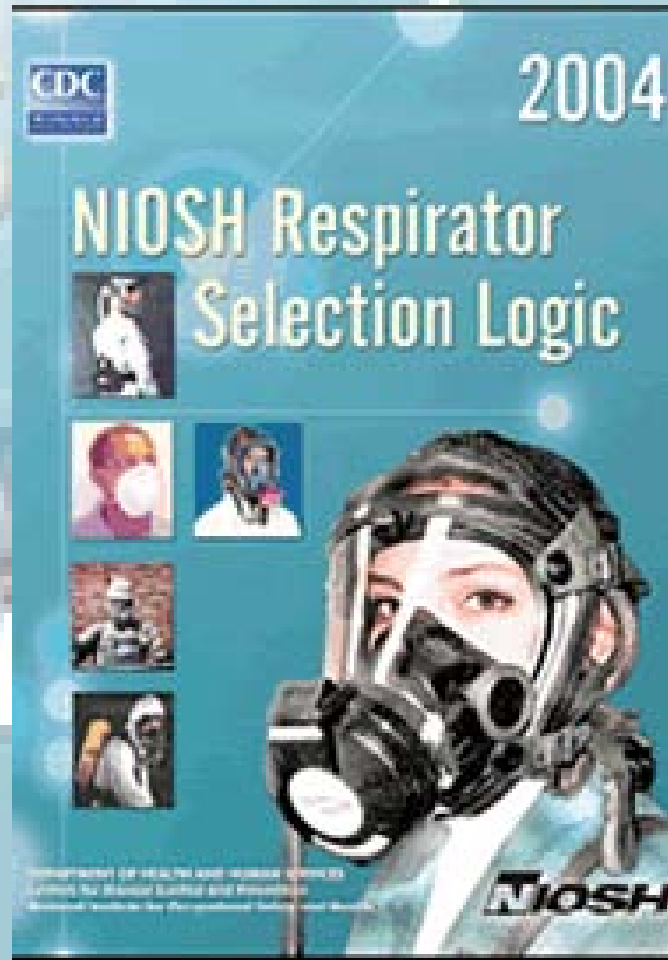
Department of Health and Human Services

Centers for Disease Control and Prevention

Respiratory Protective Devices; Final
Rules and Notice

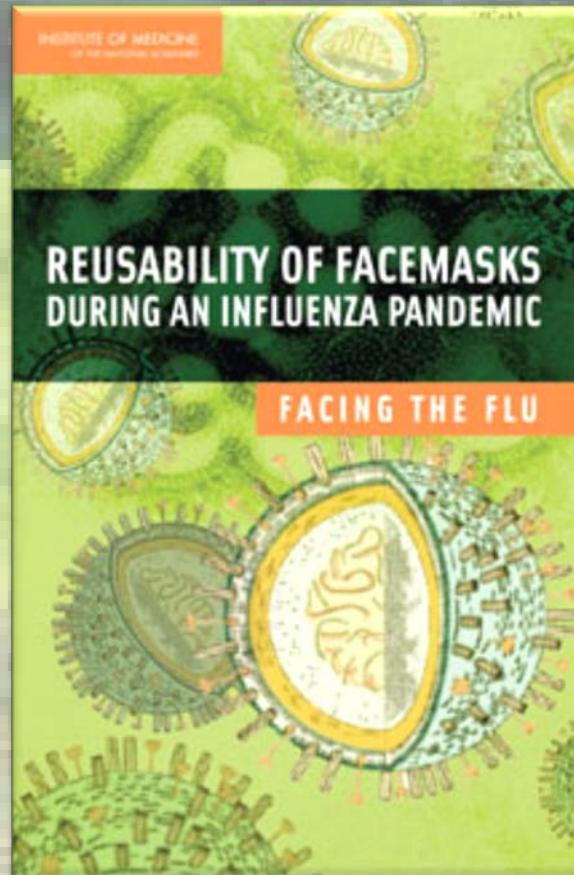
42 CFR Part 84
Respiratory Protective Devices

NIOSH Respirator Selection Logic



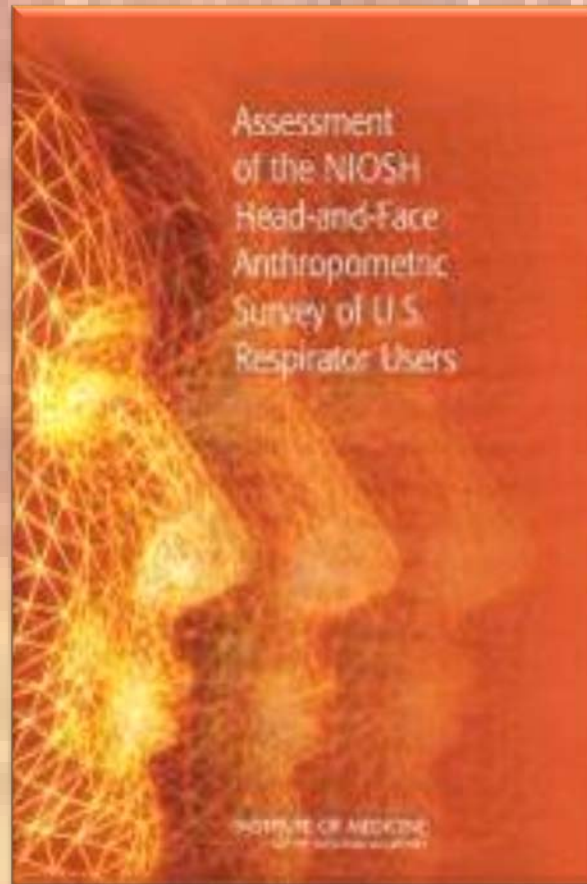
2004 – NIOSH Respirator Selection Logic /
NIOSH Publication No. 2005-100

REUSABILITY OF FACEMASKS DURING AN INFLUENZA PANDEMIC



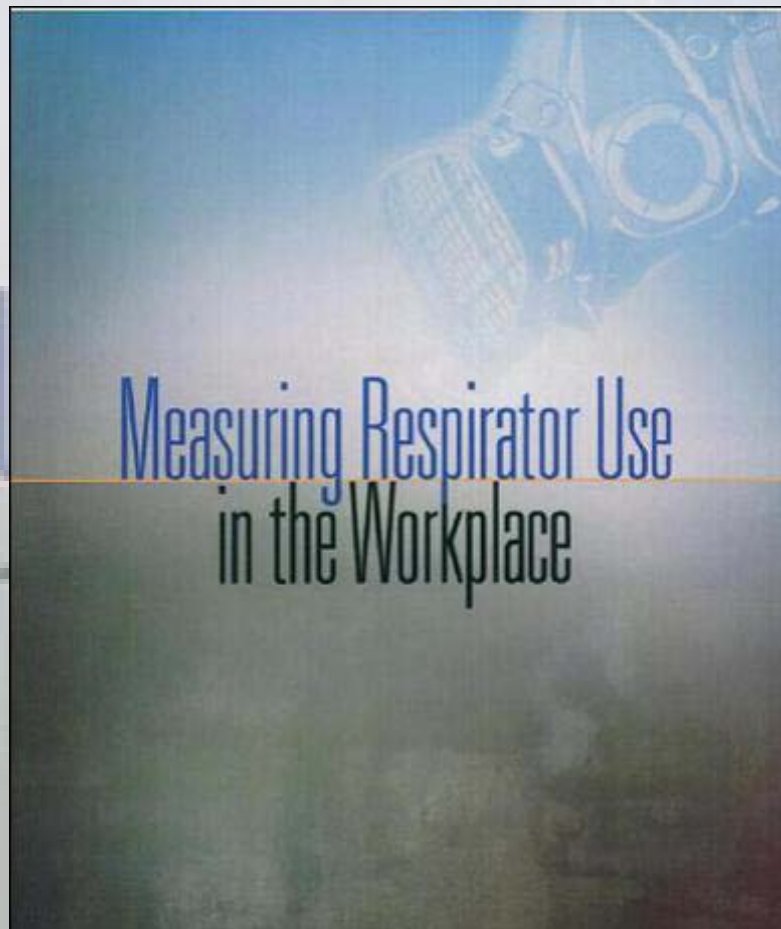
2006 –IOM report examining issues related to the potential reuse of masks and N95 respirators in the event of an influenza pandemic

Head-and-Face Anthropometry



2007 – IOM report to assess the NIOSH anthropometric survey

Measuring Respirator Use



2007 – National Research Council (NRC) report
Measuring Respirator Use in the Workplace

NIOSH PPT Program and NPPTL Relevance and Impact

Mine Escape Issues

- Respirator Certification
- Mine Emergency Respirator Investigations
- New Technology Research
- Escape Respirator Research
- Escape Respirator Standards
- MSHA Collaboration

CBRN Issues

- Respirator Standards Development
- CBRN PPT Research
- Respirator Certification
- NFPA/IAFF Collaboration
- TSWG IAA
- OSHA Collaboration



Nanotechnology Issues

- Filtration Research
- Protective Clothing Research
- Respirator Research
- Respirator Certification
- Workplace Guidance

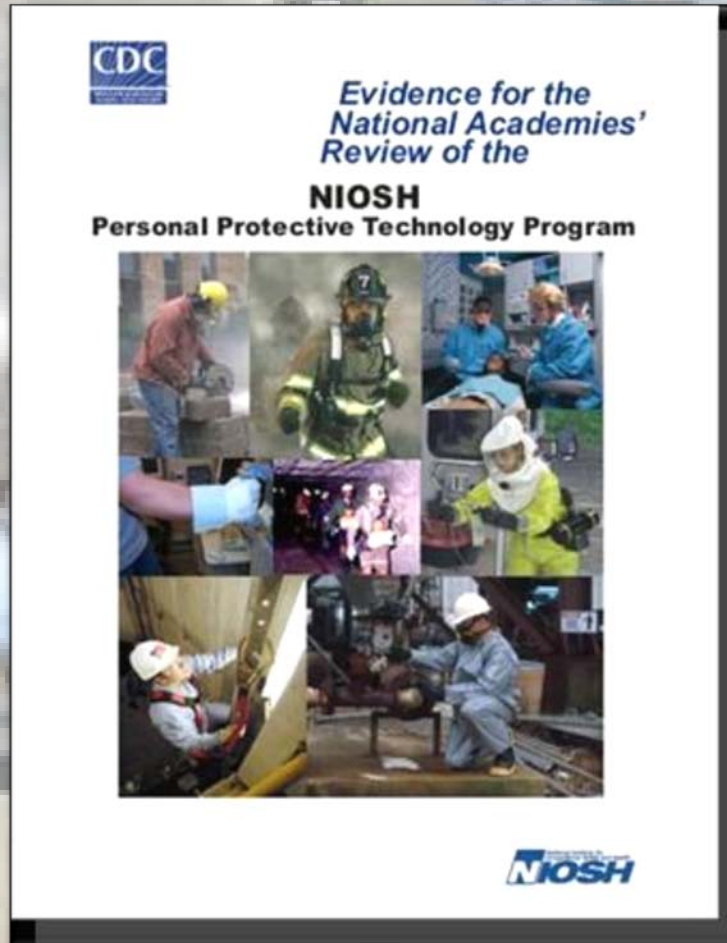
Pandemic Issues

- N95 Respirator Research
- Standards (Total Inward Leakage)
- Respirator Certification
- FDA Collaboration
- National Academies Activities
- Pandemic Planning and Response



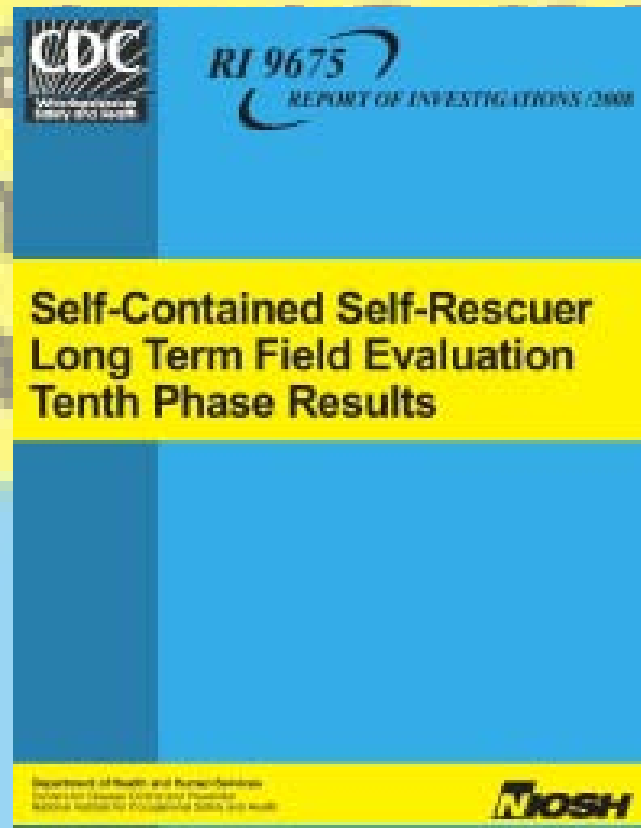
NIOSH

Personal Protective Technology Program



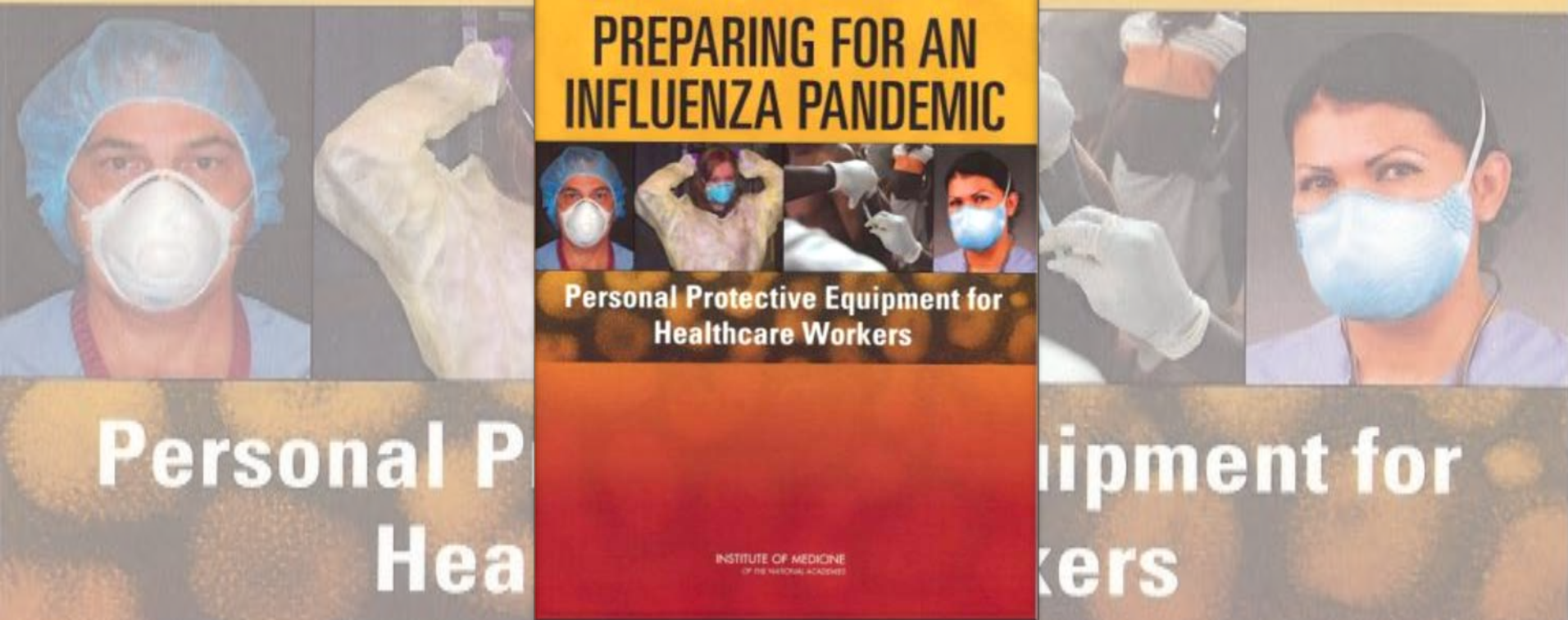
2007 – PPT Program Evidence Package for the National Academies' Review

Self-Contained Self-Rescuer Long Term Field Evaluation Tenth Phase Results



2008 – Self-Contained Self-Rescuer Long Term Field Evaluation
Tenth Phase Results /
NIOSH Publication No. 2008-138

PREPARING FOR AN INFLUENZA PANDEMIC



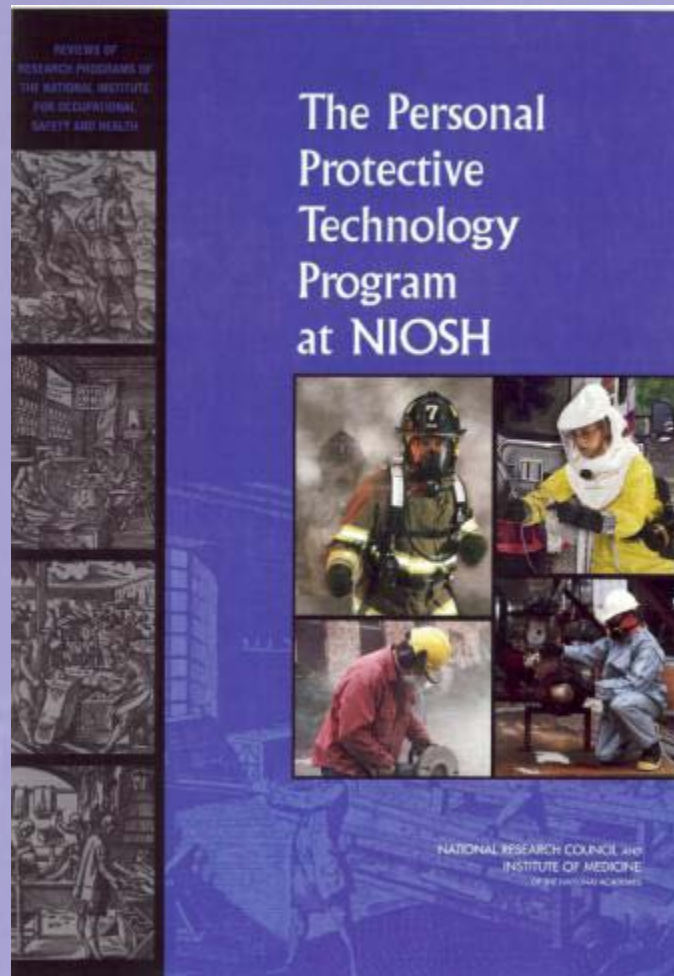
2008 – IOM report on PPE for healthcare workers

THE NATIONAL INSTITUTE
FOR OCCUPATIONAL
SAFETY AND HEALTH

The Personal Protective

gy

H



2008 –National Academies' Review of the PPT Program

National Academies' PPT Program Evaluation

Jun 2008

PPT Scores

Recommendations

Emerging Issues

Impact = 4

The program has made some contributions to end outcomes or well-accepted intermediate outcomes.

Relevance = 4

The program's work is in priority subject areas, and NIOSH is engaged in appropriate transfer activities for completed projects or reported results.

1. Implement and Sustain a Comprehensive National PPT Program
2. Establish PPT Research Centers of Excellence and Increase Extramural PPT Research
3. Enhance the Respirator Certification Process
4. Increase Research on the Use and Usability of PPT
5. Assess PPT Use and Effectiveness in the Workplace Using a Life-Cycle Approach

Continue research in priority areas

New materials technology, including "no-fit" respirators

PPT ensembles and seamless integration of multiple PPT components

Usability, comfort, ergonomics, and human factors which determine whether or not the PPE is worn by the worker

Enhancing the culture of workplace safety through worker education, training, and understanding of hazardous exposure risk to health

Other emerging issues

Estimating the Permeation Resistance of Nonporous Barrier Polymers to Sulfur Mustard (HD) and Sarin (GB) Chemical Warfare Agents Using Liquid Simulants

Estimating the Permeation Resistance of Nonporous Barrier Polymers to Sulfur Mustard (HD) and Sarin (GB) Chemical Warfare Agents Using Liquid Simulants

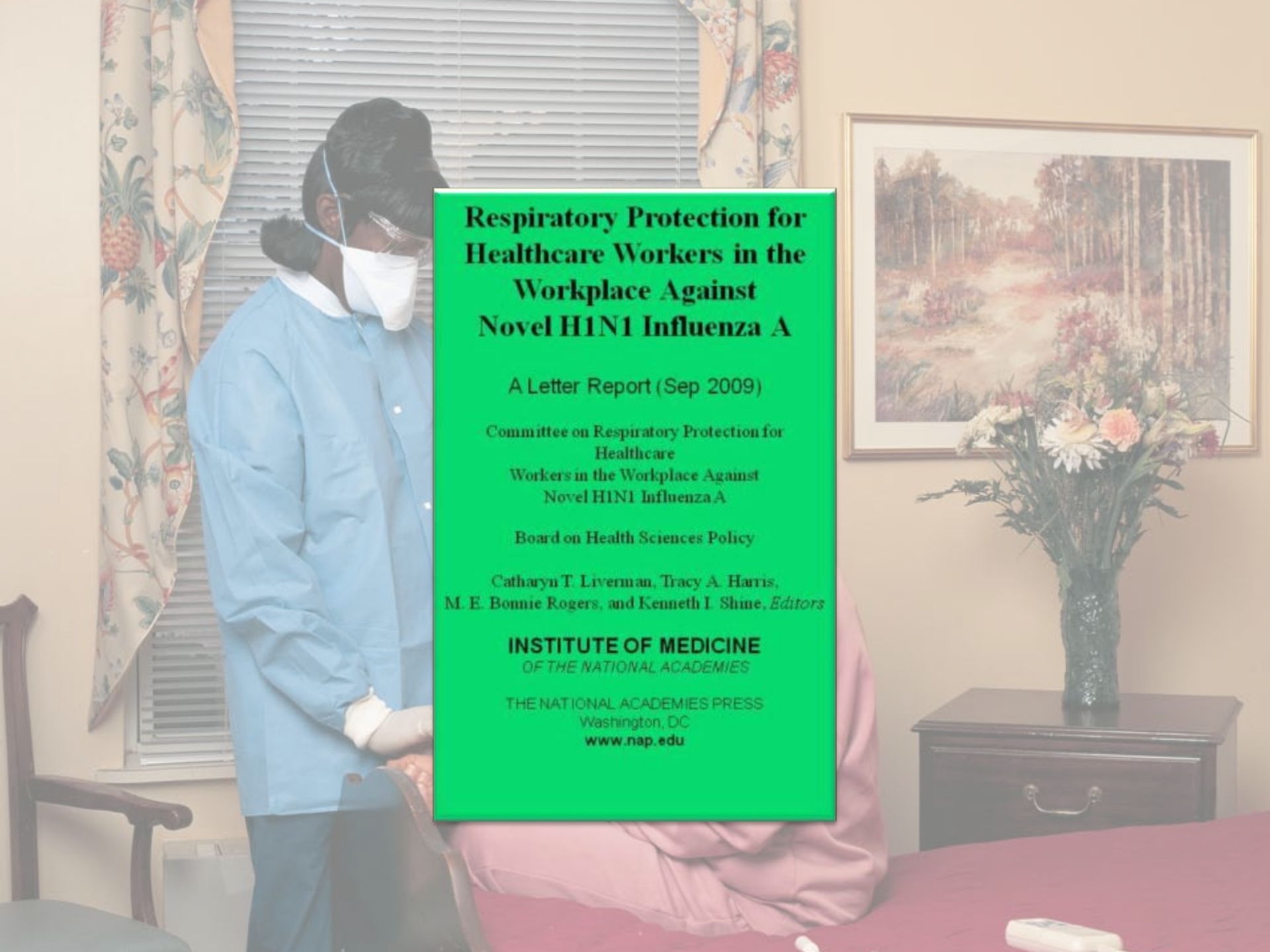


DEPARTMENT OF HEALTH AND HUMAN SERVICES
CENTERS FOR DISEASE CONTROL AND PREVENTION
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH



NIOSH

2008 – Chemical Warfare Agents (CWA) Publication /
NIOSH Publication No. 2008-141

A healthcare worker in a room with a patient. The worker is wearing a blue gown, a white face mask, and safety glasses. They are standing next to a bed where a patient is lying. The room has a window with blinds and floral curtains, a framed picture of a forest on the wall, and a vase of flowers on a nightstand.

Respiratory Protection for Healthcare Workers in the Workplace Against Novel H1N1 Influenza A

A Letter Report (Sep 2009)

**Committee on Respiratory Protection for
Healthcare
Workers in the Workplace Against
Novel H1N1 Influenza A**

Board on Health Sciences Policy

**Catharyn T. Liverman, Tracy A. Harris,
M. E. Bonnie Rogers, and Kenneth I. Shine, *Editors***

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Washington, DC
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PREVENTING TRANSMISSION OF PANDEMIC INFLUENZA AND OTHER VIRAL RESPIRATORY DISEASES

PREVENTING TRANSMISSION OF PANDEMIC INFLUENZA AND OTHER VIRAL RESPIRATORY DISEASES

Personal Protective Equipment for Healthcare Personnel

UPDATE 2010

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UPDATE 2010

2010 – IOM Report on Personal Protective Equipment for
Healthcare Personnel Update 2010

CERTIFYING PERSONAL PROTECTIVE TECHNOLOGIES



2010 – IOM Report on Certifying Personal Protective Technologies